


Issue: November, 2020 Supersedes: June, 2019

1. Product and Company Identification

Product Name	Morgan Fuel (Cool Power, Omega, Pro Pattern, Sidewinder, Traxxas) all grades.
Other Product Name(s)	Model car and airplane fuel
Product Use	Fuel for engine in model planes and cars
Manufacturer	Morgan Fuel, LLC 200 West Lee Street Enterprise, Alabama 36330 Information: (334) 347 3525
Emergency Telephone Numbers	(800) 424-9300 (CHEMTREC – US) 703 527 3887 (Outside U.S.)

2. Hazards Identification

Emergency Overview: Flammable liquid fuel in various colors (see section 9) with alcohol odor. Can irritate skin, eyes and respiratory tract. Harmful or fatal if swallowed. (Contains methyl alcohol.)

OSHA Regulatory Status	Hazardous
WHMIS Regulatory Status	Hazardous
OSHA Classification	Flam. Liquid 2, Acute Tox 3, STOT SE 1
WHMIS Classification	Flam. Liquid 2, Acute Tox 3, STOT SE 1
OSHA/WHMIS Signal Word	DANGER
OSHA/WHMIS Hazard Statements	Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to eyes and may cause blindness, especially if ingested.
OSHA/WHMIS Precautionary Statements	Keep away from heat, sparks, open flames, sources of static electricity & hot surfaces. – No smoking. Heating may cause and explosion. Keep container tightly closed. Do not get in eyes, on skin or on clothing. Wear eye protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Store locked up in a well-ventilated space. Keep cool. If swallowed, immediately call a poison control center or doctor. Dispose of container in accordance with Federal and local regulations.
OSHA/WHMIS Label Symbols	
Other Hazards Not Specified by OSHA/WHMIS	None

** Note: Label designed to meet OSHA & FHSA label requirements and may contain additional phrases.

Potential Health Effects:

Skin	Causes irritation and dryness. Contact with bare skin may allow some absorption through the skin with harmful effects similar to ingestion of small quantities.
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Eyes	Causes irritation
Ingestions	Harmful if swallowed. May cause blindness (methanol content) and unconsciousness. Ingestion of large quantities may be fatal.
Inhalation	Irritating if inhaled. Can cause sleepiness (narcosis), headache, nausea and dizziness.
Chronic Effects	Chronic overexposure can affect the liver and kidneys. Nitromethane is an NTP suspect carcinogen via inhalation and as an animal carcinogen by IARC..

SDS: October, 2014 of Ingredients found on established carcinogen lists:

Ingredient	NTP Status	IARC Statue	OSHA List
Nitromethane	Anticipated carcinogen	2B –Possibly carcinogenic	-----

3. Composition / Information on Ingredients

Chemical Name	CAS #	Wt. %
Nitromethane	75-52-5	See table in section 16*
Methyl alcohol	67-56-1	
Lubricants (not hazardous)	Trade Secret	balance

* Exact percentages are trade secret

A table of compositions for all products is found in section 16.

4. First Aid Measures

Skin	Wash with plenty of soap and water. Remove contaminated clothing and launder before reuse. Get prompt medical attention for irritation or any other symptom.
Eyes	Immediately flush with water for at least 15 minutes lifting the upper and lower eyelids intermittently. Get prompt medical assistance.
Ingestions	Contact a doctor or poison control center immediately. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air. Get prompt medical assistance for irritation or any other symptom.
Advice to Physician	Product contains methanol and can cause blindness via systemic toxicity. Ethanol has been used to compete with the metabolic pathway for methanol. Apply protocols for methanol poisoning. Treat other effects symptomatically.

5. Fire Fighting Measures

Extinguishing Media:	Dry chemical, alcohol-type foam, carbon dioxide, water spray or fog. Do not use direct water stream as this spread burning liquid.
Fire/Explosion Hazards:	Vapors can travel to a source of ignition and flash back.
Fire Fighting Procedures:	Cool intact containers to prevent rupture from heat.
Flammable Limits:	LEL is 7.1% and UEL is 36% for methanol, 63% for nitromethane component.
Flash Point	40 – 45°F (4.4 – 7.2°C) Closed cup
Auto ignition Temperature:	725°F (385°C)
Hazardous Combustion Products:	Carbon monoxide, carbon dioxide and nitrogen oxides are primary hazardous combustion products. Some organic vapors from lubricants may also be formed.

Sensitivity to Impact:	Impact may rupture containers, spilling flammable liquid.
Sensitivity to Static Discharge:	Liquid may be ignited by static discharges.

6. Accidental Release Measures

Personal Precautions:	Remove all sources of ignition. Provide respiratory protection in the absence of properly ventilated area.
Containment:	Product is shipped in small containers. If many containers are broken open, surround area with clay or other non-absorbing material.
Clean Up:	Absorb with dry sand or earth and place into containers for proper disposal.
Notification Requirements:	See section 15. Morgan Fuels do not contain reportable quantities in non-bulk packages.

7. Handling and Storage

Handling:	Avoid contact with skin, eyes and clothing, Use with adequate ventilation. Keep away from children.
Storage:	Store in a cool, dry, ventilated place. Protect from physical damage.

8. Exposure Controls / Personal Protection

Engineering Controls:	Normal ventilation for closed containers. For liquid transfers, use local exhaust ventilation to keep exposure below established safe levels (see below).
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Personal Protective Equipment:

Eyes and Face:	Wear splash goggles to avoid accidental eye contact.
Respiratory:	Not required for properly ventilated areas. Otherwise use a NIOSH approved respirator.
Hands, Arms, and Body:	Rubber or neoprene gloves.

Exposure Guidelines::

Ingredient	ACGIH TLW	ACGIH STEL	OSHA PEL	OSHA STEL
Methyl alcohol	200 ppm (skin)	250 ppm	200 ppm	None
Nitromethane	20 ppm	None	100 ppm	None

9. Physical and Chemical Properties

Appearance & Physical State	Liquid in various colors: Coolpower - Green Coolpower Heli – Red Omega – Pink ProPattern - Green Sidewinder – Red
Odor:	Alcohol with some unpleasantness
Odor Threshold:	Not established
pH (1% solution)	Not determined (organic mixture)
Specific Gravity:	0.811 – 1.001
Initial Boiling Point & Range:	149°F (65°C)
Melting Point /Freezing Point:	Not determined
Evaporation Rate:	1.4 – 2.1 (vs. n-butyl acetate)
Percent Volatile:	100

Solubility in Water	90%
Vapor Density:	1.1 – 2.1
Vapor Pressure:	27 – 123 mm Hg
Upper/ Lower Flammable Limits:	LEL is 7.1% and UEL is 36% (methanol), 63% (nitromethane)
Flash Point	40 – 45°F (4.4 – 7.2°C) Closed cup
Auto ignition Temperature:	725°F (385°C)
Flammability (solid, gas)	Not applicable
Octanol/water partition coefficient	Not determined
Decomposition temperature	Not determined
Viscosity	Solid – Not applicable

10. Stability and Reactivity

Stability:	Normally stable
Conditions to Avoid:	Heat and sources of ignition.
Materials to avoid	Strong oxidizers can ignite product
Polymerization:	Will not occur.
Hazardous Decomposition Products	Carbon dioxide and monoxide. Nitrogen oxides.

11. Toxicological Information

Eye:	Methyl Alcohol: Irritant Nitromethane: Mild to moderate irritant
Skin:	Methyl Alcohol: Irritant LD ₅₀ (rabbit) 12,800 mg/kg Nitromethane: Irritant. LD ₅₀ (rabbit) > 2,000 mg/kg
Oral:	Methyl Alcohol: LD ₅₀ 3,000 – 4,000 mg/kg (Pigtail monkey) ; (rat) 5628 mg/kg Nitromethane: LD ₅₀ –(rat) - 940 mg/kg
Inhalation:	Methyl Alcohol: LC ₅₀ (rat) 64,000 ppm/4 hr. Nitromethane: LC ₅₀ (rat) >12.75 mg/L 1 hr.
Chronic:	Methyl Alcohol: Repeated exposures may affect the ocular nerve and eyesight. Nitromethane: Suspect carcinogen (NTP). In an inhalation bioassay, nitromethane caused tumors in mice (male and female) but not in male rats. Listed as an IARC animal carcinogen (2B).

12. Ecological Information

Acute ecotoxicity:	These products have not been tested as mixtures
Chronic ecotoxicity:	These products have not been tested as mixtures

13. Disposal Considerations

RCRA Status	RCRA Ignitable waste: D001
Disposal Method:	Incineration recommended

14. Transportation Considerations

DOT Proper Shipping Name: Domestic limited quantity	Flammable liquids, n.o.s. (methanol and nitromethane) Limited Quantity
DOT Primary Hazard Class / Division:	Class 3 – flammable liquids
DOT UN / NA Number: Domestic International	UN 1993 UN 1992
DOT Packing Group	II
TDG (Canada)	Flammable liquids, toxic, n.o.s. (methanol and nitromethane)
IMDG (International water)	Flammable liquids, toxic, n.o.s. (methanol and nitromethane)

15. Regulatory Information

UNITED STATES:

Toxic Substances Control Act (TSCA)

TSCA Inventory Status:	Listed on TSCA Chemical Inventory
Other TSCA Issues:	None

SARA Title III/CERCLA

Ingredients with "Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs).

Ingredient	SARA/CERCLA RQ (lb)	SARA EHS TPQ (lb)
Methyl Alcohol	5000	None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SARA 311 Hazard Class:	Flam. Liquid 2, Acute Tox 3, STOT SE 1
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SARA 313 Toxic Chemicals:

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

Ingredient	Comment
Methyl Alcohol	Deminimus level: 1%
Nitromethane	Deminimus level: 1%

State Right-To-Know

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

Ingredient	Weight %	Comment
Methanol	See compositions in section 16	California Proposition 65 Developmental toxicant
Nitromethane		California Proposition 65Carcinogen

Additional Regulatory Information:	None
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CANADA:

WHMIS Classification:	B2, D1A, D2B
WHMIS Ingredient Disclosure List	Methyl alcohol, nitromethane
DSL Status (Domestic substances list)	All ingredients listed on the DSL

Ingredients for this product also found on the chemical inventories of Australia, China, Korea, Japan and the Philippines.

16. Other Information

Product Compositions Table

Product	% Nitromethane	% Methanol
Cool Power FAI Omega FAI	----	80 - 100
Cool Power 5% Omega 5% Omega Contro Line 5%	1 – 5	80 - 100
Cool Power 10% Cool Power MV 10% Cool Power Super "T", Omega 10% Omega Control Line 10% Omega Super "T" Traxxas 10%	5 – 10	80 - 100
Product	% Nitromethane	% Methanol
Cool Power YS Heli 15%, 20% Cool Powerd MV 4-Cycle Cool Power MV Heli 15% Cool Power 15%. 25% Cool Power Jet-15 Cool Power MV 15% Cool Powr 4-Cycle% Cool Power Heli 12.5%, 15%, 20% Cool Power ProPattern 20% Cool Power ProPattern 25% Omega 15% Omega Jet-15 Omega 4-Cycle% Omega Heli 15% Sidewinder Backyard Basher Sidwwinder Pro 16%, 25%, 30% Sidewinder Race Formula 16%, 25%, 30% Sidewinder Stike Team 25%, 30% Sidewinder Strike Team Off-Road 20%, 25% 30% Sidewinder Strike Team On-Road 16%, 20%, 25%, 30% Sidewinder World Champ 30% Traxxas 20%	10 – 30	60 – 80
Cool Power Heli 30% Cool Power Heli 30% LS Cool Power 40% Cool Power ProPattern 30%, 40% Omega 40% Sidewinder Pro 40% Sidewinder Race 40% Sidewinder Strike Tream 40% Traxxas 33%	15 – 40	45 – 70
Sidewinder Race 50%	45 – 70	30 – 60

Changes from previous version: . Minor editing of text in section 14.

HNOC = Hazards not otherwise classified.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.